FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office Attorney Docket No.: AMBER-06797 Serial No.: 10/049,332 61PE (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary) Applicant: Kenneth J. Rothschild et al. Filing Date: 06/21/02 Group Art Unit: 1645 (37 CFR § 1.98(b)) **U.S. PATENT DOCUMENTS** Examiner Initials Issue Date Class Subclass Applicant / Patentee Filing Date /JK/ 4,683,195 7/28/87 Mullis et al. 435 6 2/07/86 2 4,774,339 9/27/88 Haugland et al. 548 405 8/10/87 3 5,069,769 12/03/91 204 182.8 6/06/90 Fujimiya et al. 4 5,091,328 2/25/92 Miller 437 52 11/21/89 5 5,137,609 8/11/92 1/31/92 Manian et al. 204 180.1 6 5,187,288 2/16/93 5/22/91 Kang et al. 548 110 7 5,190,632 3/02/93 204 299 R 3/20/92 Fujimiya et al. 8 5,248,782 9/28/93 Haugland et al. 548 110 12/18/90 Q 5,274,113 12/28/93 Kang et al. 548 405 11/01/91 10 5,433,896 7/18/95 700 5/20/94 Kang et al. 252 11 5,451,663 9/19/95 Kang et al. 530 367 4/08/93 12 5,643,722 7/01/97 Rothschild et al. 435 6 5/11/94 13 5,783,397 7/21/98 Hughes et al. 435 7.1 6/12/96 14 5,654,150 9/05/97 King et al. 435 6 6/07/95 15 5,614,386 3/25/97 Metzker et al. 435 91.1 6/23/95 FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS Translation Document **Publication Date** Country / Patent Office Class Subclass Number Yes /JK/ 16 WO90/05785 5/31/90 PCT OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication) /JK/ 17 Allen et al., Gel Electrophoresis and Isoelectric Focusing of Proteins, Walter de Gruyter, New York 1984, pp. 17-62 18 Antibodies: A Laboratory Manual (E. Harlow and D. Lane, editors, Cold Spring Harbor Laboratory Press, 1988, pp. 53,72-73) Bain et al., "Site-Specific Incorporation of Nonnatural Residues during In. Vitro Protein Biosynthesis with Semisynthetic Aminoacyl-tRNAs," Biochemistry 30:5411-21 (1991) 19 Bruce and Uhlenbeck, "Specific Interaction of Anticodon Loop Residues with Yeast Phenylalanyl-tRNA Synthetase," Biochemistry 21:3921-20 Current Protocol in Molecular Biology, "Synthesizing Proteins In Vitro by Transcription and Translationof Cloned Genes," (F.M. Ausubel et al. editors, Wiley Interscience, 1993), pp.10.76-10.77 21 Da Poian, A. T., et al., "Kinetics of intracellular viral disassembly and processing probed by Bodipy fluorescence dequenching," J Virol Methods 70(1):45-58 (1998) 22 DiCcsare et al., "A High-Sensitivity Electrochemiluminescence-Based Detection System for Automated PCR Product Quantitation," BioTechniques 15:152-59 (1993) 23 Doty et al., "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Physical Chemicals Studies," Proc. Natl. Acad. Sci. USA 46:461-476 (1960) 24 25 Felgner et al., "Lipofection: A highly efficient, lipid-mediated DNA-transfection procedure," Proc. Natl. Acad. Sci. USA 84:7413-17 (1987) 26 Happ et al., "New Approach to the Synthesis of 2'(3')-O-Aminoacyl Oligoribonucleotides," J. Org. Chem. 52:5387-91 (1987) Heckler et al., "Preparation of 2'(3')-O-Acyl-pCpA Derivatives as Substrates for T4 RNA Ligase-Mediated "Chemical Aminoacylation"," Tetrahedron 40:87-94 (1984) 27 28 Heckler et al., "T4 RNA Ligase Mediated Preparation of Novel "Chemically Misacylated" tRNA Pacs," Biochemistry 23:1468-73 (1984) 04/24/2007 /James Ketter/ Examiner: Date Considered: **EXAMINER:** Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 2 of 3 FORM PTO-1449 U.S. Department of Commerce Attorney Docket No.: AMBER-06797 Serial No.: 10/049,332 (Modified) Patent and Trademark Office . INFORMATION DISCLOSURE STATEMENT BY APPLICANT Applicant: Kenneth J. Rothschild et al. (Use Several Sheets If Necessary) (37 CFR § 1.98(b)) Filing Date: 06/21/02 Group Art Unit: 1645 OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication) /JK/ 29 Hemmila, I.A., Chemical Analysis "Applications of Fluorescence in Immunoassays", (Wiley&Sons 1991) pp.138-159 Hudson, "Methodological Implications of Simultaneous Solid-Phase Peptide Synthesis: 1. Comparison of Different Coupling Procedures", J. Org. Chem. 53:617-624 (1988) 30 Ishi et al., "tRNAMET gene in the leader region of the nusA operon in Escherichia coli," Proc. Natl. Acad. Sci. USA 81:409-413 (1984) 31 Keller, R. C., et al., "Characterization of the Resonance Energy Transfer Couple Coumarin-Bodipy and its Possible Applications in Protein-Lipid Research," Biochem Biophys Res Commun 207(2):508-14 (1995) 32 Kim, D., and Choi, C., "A Semicontinuous Prokaryotic Coupled Transcription/Translation System Using a Dialysis Membrane," Biotechnol Prog 12, 645-649 (1996) 33 34 Kopp et al., "Chemical Amplification: Continuous Flow PCR on a Chip," Science 280:1046 (1998) Kozak, "Point Mutations Define a Sequence Flanking the AUG Initiator Codon that Modulates Translation by Eukaryotic Ribosomes," Cell 44:283-292 (1986) 35 Krieg et al., "Photocrosslinking of the signal sequence of nascent preprolactin to the 54-kilodalton polypeptide of the signal recognition particle," Proc. Natl. Acad. Sci. USA 83:8604-08 (1986) 36 Kudlicki, W.et al., "Chaperone-dependent Folding and Activation of Ribosome-bound Nascent Rhodanese," J Mol Biol 244(3):319-31 (1994) 37 38 Laemmli, U. K., "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4," Nature 227:680-685 (1970) Marmur and Lane, "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Biological Studies," Proc. Natl. Acad. Sci. USA 46:453-461 (1960) 39 40 Molecular Cell Biology (J. Darnell et al. editors, Scientific American Books, N.Y., N.Y. 1991) pp. 119-132 Neu and Heppel, "Nucleotide Sequence Analysis of Polyribonucleotides by Means of Periodate Oxidation Followed by Cleavage with an Amine," J. Biol. Chem. 239:2927-34 (1964) 41 42 Noren et al., "A General Method for Site-Specific Incorporation of Unnatural Amino Acids into Proteins," Science 244:182-188 (1989) Odom et al., "In Vitro engineering using acylderivatized tRNAs," Methods Mol Biol., Vol. 77: In Protein synthesis: Methods and Protocols, PP.93-103, (Edited by R. Martin, Humana Press, Totowa, NJ.) (1998) 43 Olejnik, et al., "Photocleavable biotin derivatives: A versatile approach for the isolation of biomolecules," Proc. Nat. I Acad. Sci. U S A, 92: 7590-4 (1995) 44 45 Olejnik et al., "Photocleavable Affinity Tags for Isolation and Detection of Biomolecules," Methods Enzymol., 291:135-54 (1998) 46 Patchomik et al., "Photosensitive Protecting Groups," J. Am. Chem. Soc. 92:6333-35 (1970) 47 Pavlopoulos, et al., "Laser action from a tetramethylpyrromethene-BF.sub.2 complex," APP. OPTICS 27:4998-4999 (1988) 48 Pfahler et al., "Liquid Transport in Micron and Submicron Channels," Sensors and Actuators, A21-A23, pp. 431-434 (1990) 49 Pillai, "Photoremovable Protecting Groups in Organic Synthesis," Synthesis 1-26 (1980) 50 Powell et al., "Molecular Diagnosis of Familial Adenomatous Polyposis," N. Engl. J. Med. 329:1982-87 (1993) Pratt, "Coupled Transcription-Translation in Prokaryotic Cell-Free System," (Transcription and Translation, B.D. Hames and S.J. Higgins, Editors, p. 179-209, IRL Press, Oxford, 1984) 51 52 Promega Technical Bulletin No. 182; tRNA SCOUTM: Non-radioactive Translation Detection System, Sept. 1993 Reis, R. C., et al., "A novel methodology for the investigation of intracellular proteolytic processing in inter cells," Eur J Cell Biol 75(2), 192-7 53 (1998)Rowan and Bodmer, "Introduction of a myc Reporter Taq to Improve the Quality of Mutation Detection Using the Protein Truncation Test," Human Mutation 9:172-176 (1997) 54 Sampson and Uhlenbeck, "Biochemical and physical characterization of an unmodified yeast phenylalanine transfer RNA transcribed in vitro," Proc. Natl. Acad. Sci. USA 85:1033-37 (1988) 55 Seong and RajBhandary, "Escherichia coli formylmethione tRNA: Mutations in GGG sequence conserved in anticodon stem of initiator tRNAs affect initiation of protein synthesis and conformation of anticodon loop," Proc. Natl. Acad. Sci. USA 84:334-338 (1987) 56 57 Spirin et al., "A Continous Cell-Free Translation System Capable of Producing Polypeptides in High Yield," Sci. 242:1162-64 (1988) Stephens, "High-Resolution Preparative SDS-Polyacrylamide Gel Electrophoresis: Fluorescent Visualization and Electrophoretic Euliton-Concentration of Protein Bands", Anal Biochem 65:369-79 (1975) 58. 59 Treibs & Kreuzer, "Difluorboryl-komplexe von di- und tripyrrylmethenen," Liebigs Ann. Chem. 718:208-223 (1968)

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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/James Ketter/

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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)				
/JK/	- 60	Turcatti et al., "Probing the Structure and Function of the Tachykinin Neurokinin-2 Receptor through Biosynthetic Incorporation of Fluorescent Amino Acids at Specific Sites," J Biol Chem 271(33):19991-8 (1996)		
	61	Van Lintel et al., "A Piezoelectric Micropump Based on Micromachining of Silicon," Sensors and Actuators 15:153-167 (1988)		
	62	62 Varshney et al., "Initiation of protein synthesis from a termination codon," Proc Natl Acad Sci U S A 87(4):1586-90 (1990)		
	63	Varshney et al., "Direct Analysis of Aminoacylation Levels of tRNAa in Vivo," J. Biol. Chem. 266: 24712-24718 (1991)		
	64	Vecesey-Semjen et al., "The Staphylococcal α-Toxin Pore Has a Flexible Conformation," Biochemistry 38 4296-4302 (1999)		
	65	Walker, B. et al., "Functional Expression of the α-Hemolysin of Staphylococcus aureus in Intact Escherichia coli and in Cell Lysates," J. Biol. Chem. 267:10902-10909 (1992)		
	66	Wories et al., "A novel water-soluble fluorescent probe: Synthesis, luminescence and biological properties of the sodium salt of the 4-sulfonato-3,3', 5'5-tetramethyl-2,2'-pyrromethen-1,1'-BF.sub.2 complex," Recl. Trav. Chim. PAYSBAS 104, 288 (1985)		
	67	Yao S et al., "SDS capillary gel electrophoresis of proteins in microfabricated channels," PNAS 96:5372-5377 (1999)		
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